



# National Weather Service

## Storm Data and Unusual Weather Phenomena



September 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### LAKE MICHIGAN

<b>LMZ645</b>	<b>North Pt Lt To Wind Pt Wi</b>								
<b>Milwaukee Harbor</b>	<b>13</b>	<b>1715CST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind (MG50)</b>
<b>LMZ643</b>	<b>Sheboygan To Pt Washington Wi</b>								
<b>Sheboygan</b>	<b>13</b>	<b>1800CST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind (MG37)</b>
<b>LMZ646</b>	<b>Wind Pt Lt Wi To Winthrop Hbr Il</b>								
<b>Kenosha</b>	<b>13</b>	<b>1825CST</b>			<b>0</b>	<b>0</b>			<b>Marine Tstm Wind (MG45)</b>

A line of strong storms pushed over Lake Michigan around 1800 CST as a strong cold front pushed east. Peak gusts were generally in the 35 to 50 knot range (40-58 mph).

### WISCONSIN, Southeast

<b>WIZ046&gt;047-051&gt;052-056&gt;060-062&gt;072</b>	<b>Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha</b>								
	<b>01</b>	<b>0000CST</b>			<b>0</b>	<b>0</b>			<b>Drought</b>
	<b>30</b>	<b>2359CST</b>							

The month began with warm and dry conditions which strengthened the ongoing drought from a severe drought (D2) to an extreme drought (D3) across Rock, Walworth, Waukesha, Milwaukee, Racine, and Kenosha counties on September 6th. Elsewhere across south-central and southeast Wisconsin, drought remained at severe status (D2). Rainfall deficits grew once again the following week as a hot and dry airmass resided over the region. Highs on September 10th through the 13th were observed in the lower 90s for much of southern Wisconsin. Little if any precipitation fell in the first half of the month. The drought status for the area remained unchanged through September 13. A wetter pattern developed for the second half of the month - several inches fell across mostly southeast Wisconsin. A storm system caused a series of thunderstorms to "train" over much of southeast Wisconsin on September 25, bringing several inches to many locales within the extreme drought area. Tremendous drought improvements were noted in the September 27th drought update as the drought status improved from extreme drought (D3) to moderate drought (D1) for Waukesha and Milwaukee counties and from extreme drought to severe drought (D2) for Rock, Walworth, Racine, and Kenosha counties. Monthly rainfall totals included 5.93 inches in Sheboygan (Sheboygan Co.), 5.10 inches in Beloit (Rock Co.), 4.17 inches at Milwaukee Mitchell Field (Milwaukee Co.), 3.92 inches in Beaver Dam (Dodge Co.), 3.73 inches in Kenosha (Kenosha Co.), 3.30 inches in Wisconsin Dells (Columbia Co.), 2.73 inches in Dodgeville (Iowa Co.), and 1.93 inches at Madison's Truax Field (Dane Co.). A small area surrounding East Troy (Walworth Co.) received 6 to 6.75 inches. Milwaukee recorded a surplus of 0.87 inches for the month, while Madison recorded a 1.13 inch deficit. Total drought damages for the year are outlined in October's StormData edition.

<b>WIZ052-059&gt;060-070&gt;072</b>	<b>Sheboygan - Washington - Ozaukee - Walworth - Racine - Kenosha</b>								
	<b>04</b>	<b>2300CST</b>			<b>0</b>	<b>0</b>			<b>Dense Fog</b>
	<b>05</b>	<b>0700CST</b>							

Light winds and a moist ground promoted the development of fog across southeast Wisconsin. Visibilities were reduced below 1/4 mile in areas, resulting in slower vehicle speed, and a few vehicle accidents.

<b>Marquette County</b>									
<b>1 NE Montello</b>	<b>07</b>	<b>1410CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (EG52)</b>
<b>Green Lake County</b>									
<b>.5 SW Berlin</b>	<b>07</b>	<b>1425CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (EG52)</b>
<b>Rock County</b>									
<b>Janesville to 2 W Milton</b>	<b>07</b>	<b>1454CST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (EG52)</b>

A very warm and humid airmass interacted with a stationary front draped across central Wisconsin to produce a few scattered severe



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					Killed	Injured	Property	Crops	

### WISCONSIN, Southeast

storms during the afternoon over south central Wisconsin. Temperatures were in the upper 80s with dew points in the middle 60s. These storms produced mainly damaging winds which caused scattered reports of uprooted tree damage.

#### **Columbia County**

<b>Lodi to Arlington</b>	13	1545CST 1555CST			0	0	2K	<b>Thunderstorm Wind (EG56)</b>
Large trees and road signs down.								

#### **Dane County**

2 NW Dane to 3 NW De Forest	13	1545CST 1555CST			0	0		<b>Hail(0.75)</b>
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#### **Dane County**

2 NW Dane to 3 NW De Forest	13	1545CST 1555CST			0	0		<b>Thunderstorm Wind (EG50)</b>
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#### **Columbia County**

<b>Pardeeville</b>	13	1555CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Marquette County**

<b>Westfield</b>	13	1555CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Columbia County**

<b>Cambria</b>	13	1600CST			0	0	10K	<b>Thunderstorm Wind (EG56)</b>
A one foot diameter tree fell onto a house, damaging the roof and attic.								

#### **Marquette County**

1 NE Montello	13	1608CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Marquette County**

<b>Neshkoro</b>	13	1612CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Dodge County**

<b>Fox Lake</b>	13	1613CST			0	0		<b>Thunderstorm Wind (EG50)</b>
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#### **Marquette County**

7.5 ESE Endeavor	13	1617CST			0	0		<b>Thunderstorm Wind (EG56)</b>
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#### **Green Lake County**

<b>Green Lake</b>	13	1620CST			0	0		<b>Thunderstorm Wind (MG62)</b>
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#### **Rock County**

<b>Shopiere</b>	13	1620CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Fond Du Lac County**

1 NE Waupun	13	1625CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Rock County**

1 SE Johnstown Center	13	1625CST			0	0		<b>Thunderstorm Wind (EG56)</b>
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#### **Walworth County**

<b>Elkhorn</b>	13	1625CST			0	0		<b>Thunderstorm Wind (EG56)</b>
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#### **Walworth County**

<b>Delavan</b>	13	1630CST			0	0		<b>Thunderstorm Wind (EG61)</b>
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#### **Walworth County**

2.2 NE La Grange	13	1632CST			0	0	0.20K	<b>Thunderstorm Wind (EG56)</b>
A tree fell onto a chicken house.								

#### **Fond Du Lac County**

<b>Rosendale</b>	13	1633CST			0	0		<b>Thunderstorm Wind (EG52)</b>
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#### **Fond Du Lac County**

<b>Fond Du Lac Co Arpt</b>	13	1635CST			0	0		<b>Thunderstorm Wind (MG52)</b>
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#### **Walworth County**

<b>Whitewater</b>	13	1635CST			0	1		<b>Thunderstorm Wind (EG61)</b>
Powerful thunderstorm winds toppled a tree, which fell onto a car, injuring one person.								



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### WISCONSIN, Southeast

#### Jefferson County

3 N Palmyra	13	1640CST			0	0			Thunderstorm Wind (EG52)
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#### Waukesha County

Mukwonago to Brookfield	13	1640CST 1700CST			0	0			Thunderstorm Wind (MG58)
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There were widespread reports of trees and powerlines toppled across Waukesha County. Law enforcement reported a measured gust of 58 knots (67 mph) around the city of Waukesha. Trained spotters estimated wind gusts of 70 to 74 knots (80 to 85 mph) embedded within the larger area of damaging winds between just south of Waukesha through Brookfield.

#### Fond Du Lac County

Taycheedah	13	1644CST			0	0			Thunderstorm Wind (EG50)
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#### Washington County

Kewaskum	13	1645CST			0	0			Thunderstorm Wind (EG52)
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#### Waukesha County

1 S Dousman	13	1652CST			0	0			Thunderstorm Wind (EG56)
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#### Dodge County

Kekoskee	13	1700CST			0	0			Thunderstorm Wind (EG52)
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#### Milwaukee County

Wauwatosa to Fox Pt	13	1700CST 1715CST			0	0			Thunderstorm Wind (EG56)
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Widespread large trees down. Measured peak gust on UW-Milwaukee campus.

#### Waukesha County

Sussex	13	1700CST			0	0			Thunderstorm Wind (EG61)
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#### Waukesha County

Pewaukee	13	1704CST			0	0			Thunderstorm Wind (EG61)
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#### Ozaukee County

Mequon	13	1710CST			0	0			Thunderstorm Wind (EG56)
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#### Sheboygan County

Plymouth	13	1710CST			0	0			Thunderstorm Wind (EG52)
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#### Waukesha County

2 S Hartland	13	1710CST			0	0			Thunderstorm Wind (EG56)
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#### Milwaukee County

Milwaukee	13	1715CST			0	0			Thunderstorm Wind (MG52)
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Measured by the Fox TV-6 school network site at UW-Milwaukee. Large tree branches down.

#### Ozaukee County

Thiensville	13	1715CST			0	0			Thunderstorm Wind (EG56)
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#### Ozaukee County

Cedarburg to Grafton	13	1718CST 1720CST			0	0			Thunderstorm Wind (EG56)
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#### Washington County

Jackson	13	1721CST			0	0			Thunderstorm Wind (EG50)
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Large picnic table and chairs scattered and thrown 20 feet by wind gusts, and large trees down.

#### Sheboygan County

Sheboygan	13	1722CST			0	0			Thunderstorm Wind (MG56)
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Measured by the Fox TV-6 school network site at North High School.

#### Ozaukee County

2 W Port Washington	13	1723CST			0	0			Thunderstorm Wind (EG56)
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#### Sheboygan County

2 W Sheboygan to Sheboygan	13	1732CST 1749CST			0	0	5K		Thunderstorm Wind (EG56)
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A barn door was blown off and items were blown out of the barn.



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### WISCONSIN, Southeast

#### Washington County

2 NE Jackson	13	1735CST			0	0	10K		Thunderstorm Wind (EG50)
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Large trees and power lines down.

#### Washington County

Jackson	13	1735CST			0	0			Thunderstorm Wind (MG50)
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Measured by the Fox TV-6 school network site at Kettle Moraine High School.

#### Ozaukee County

2 N Waubesa	13	1750CST			0	0			Thunderstorm Wind (EG52)
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Trees blown over.

#### Sheboygan County

Cedar Grove to 5 SSW Sheboygan	13	1800CST 1815CST			0	0	75K		Thunderstorm Wind (EG56)
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Trees and power lines were blown down and a few houses sustained some minor damage.

A strong cold front pushed into an unseasonably hot and humid airmass over south-central and southeast Wisconsin during the afternoon and evening, resulting in severe storms with damaging straight-line winds. Temperatures ranged from the mid 80s across south central Wisconsin to near record highs in the lower 90s across southeast Wisconsin. There were primarily two areas that were affected by severe thunderstorms. A broken line of severe storms from Marquette to Dane County tracked east northeast into Dodge, Fond du Lac, Washington, and Sheboygan counties. This line produced damaging wind gusts from between 50 to 62 knots (58 mph to 71 mph). Tree and power line damage was reported across many areas affected by this line of storms. Another area affected by severe storms stretched from Rock county through Walworth, Waukesha, Milwaukee, and Ozaukee counties as one large supercell developed and tracked northeast along I-43. Several reports of damaging winds estimated in excess of 70 knots (80 mph) were collected from portions of Waukesha county. Widespread tree and power line damage was noted from Mukwonago through Brookfield. More sporadic tree and power line damage was reported across northern Milwaukee and southern Ozaukee counties.

#### Rock County

Afton	22	1145CST			0	0			Hail(1.00)
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#### Walworth County

Lake Geneva	22	1228CST			0	0			Hail(1.00)
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#### Walworth County

Pell Lake	22	1235CST			0	0			Hail(1.00)
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#### Kenosha County

Twin Lakes	22	1239CST			0	0			Hail(1.75)
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#### Kenosha County

Powers Lake	22	1240CST			0	0			Hail(1.75)
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#### Kenosha County

Twin Lakes	22	1243CST			0	0			Hail(1.50)
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There were two rounds of severe thunderstorms that produced large hail. The first round developed in north-central Iowa along a southwest to northeast orientated cold front pushed into Sauk and Columbia counties. Only sub-severe hail was reported in Reedsburg. The second round of severe storms developed as the cold front sagged into far southern Wisconsin where temperatures were in the 80s and dew points were in the middle 60s. These storms pushed from Rock county east into Kenosha county. Large hail in excess of 1 inch in diameter was reported along this path with some areas experiencing golf-ball sized hail (1.75") in Kenosha county.

#### Milwaukee County

Milwaukee	25	2000CST			0	0	50K		Flash Flood
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### WISCONSIN, Southeast

**26 0100CST**

Widespread flooding across most of Milwaukee County. Several feet of water was reported on Interstate 43 at North Avenue, causing it to close for several hours. Three cars were stranded as water rose very rapidly. One to three feet of water was also reported on roadways at the UW-Milwaukee campus. On the UW-Milwaukee campus, over 4 inches of rain fell during the evening. Some basements were flooded in low lying areas, resulting in damage to contents.

### **Waukesha County**

**Mukwonago to  
New Berlin**

**25 2000CST**

**0**

**0**

**50K**

**Flash Flood**

**26 0100CST**

Flooded roads and some flooded basements were reported across portions of central and southern Waukesha county, damaging contents inside.

Heavy rains of 2.0 to to 4.5 inches werer reported across parts of Waukesha and Milwaukee counties during the late afternoon and into late evening as thunderstorms tracked northeast over the same areas. Flash flooding was reported across portions of Milwaukee and Waukesha counties as storm drains became overwhelmed with water flow. Interstate-43 was closed for a couple hours after a few cars were stranded in flash flood waters near North Avenue. Several basements were also flooded about the area, resulting in damage to contents.